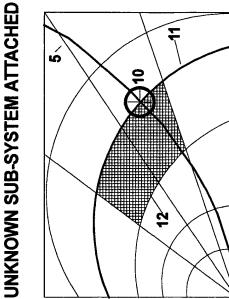


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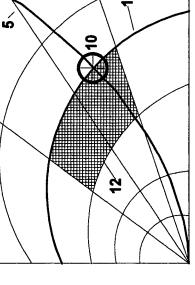
WIDE OPEN AND SYSTEM CURVES JUXTAPOSED

O DEGREES OR 100% OPEN 9/35 DEFAULT SELECTION RANGE OR DESIGN SPECIFIED OPERATING PARAMETER TERMINAL OR IN-LINE DEVICE WOC MAX FIG. 7A Z 100% FLOW-VOL. **UNKNOWN TOTAL SYSTEM ATTACHED** % WOF KNOWN PRIME MOVER WOC **FIG. 7**



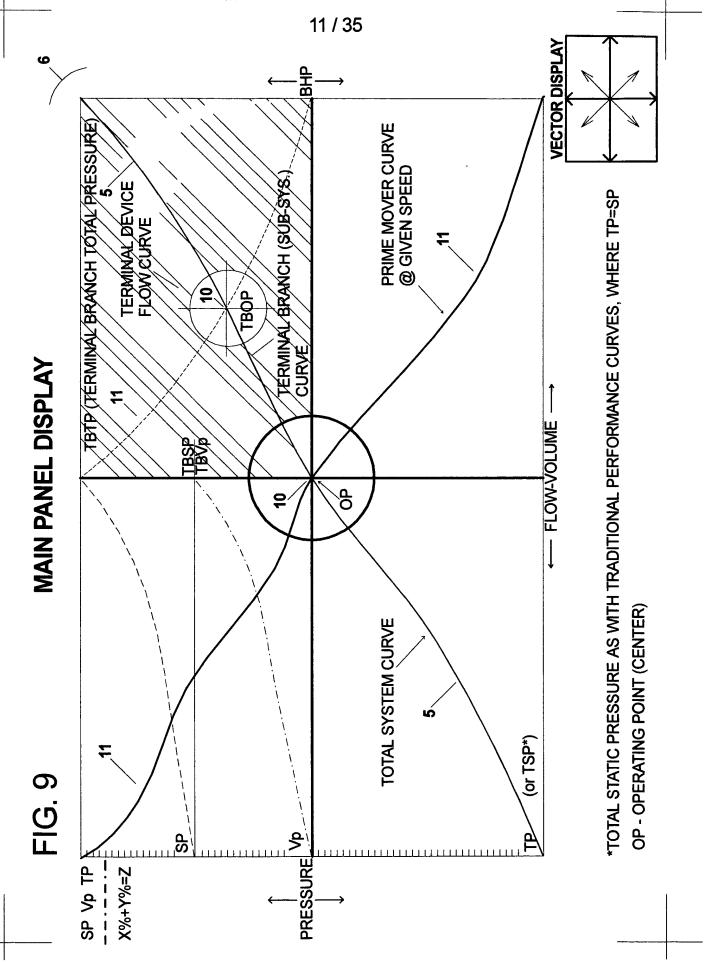
% WOF

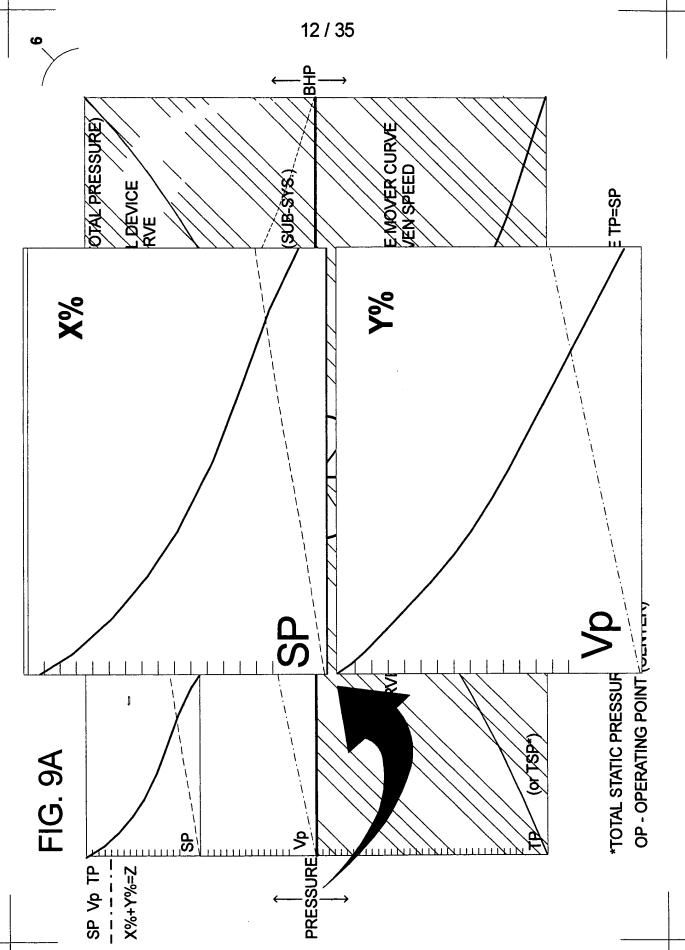
S



PRIMARY OR TERMINAL HEAT EXCHANGE

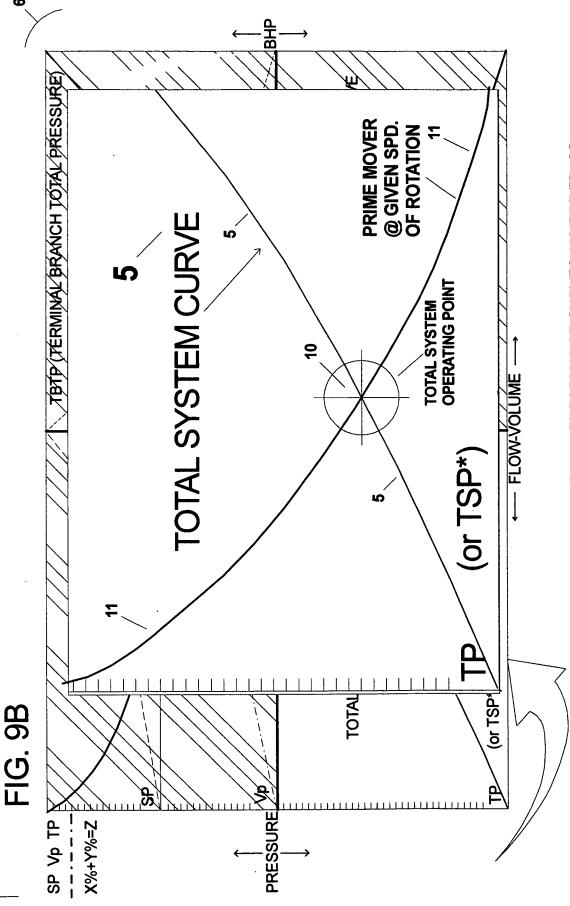




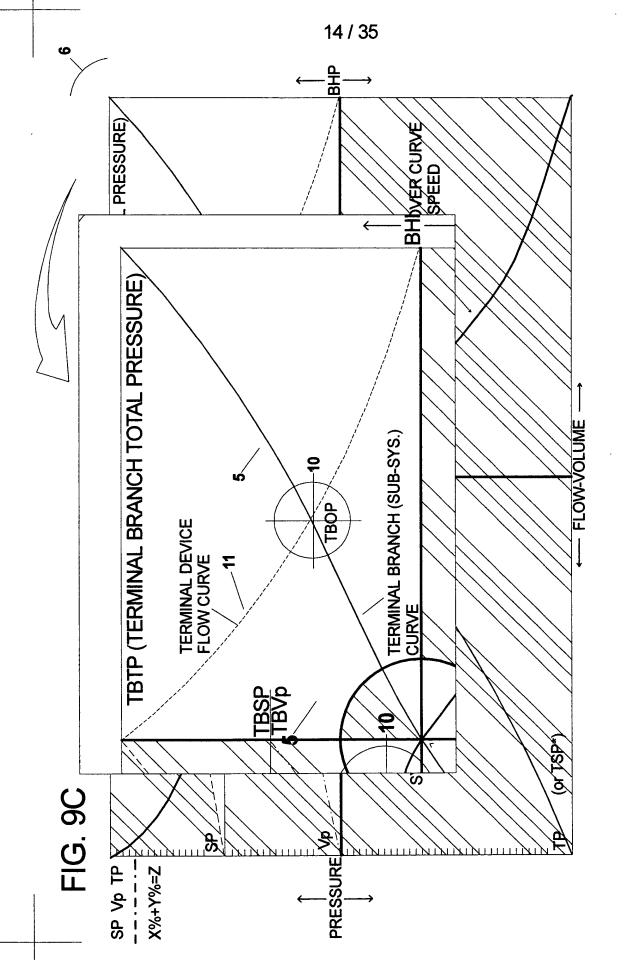


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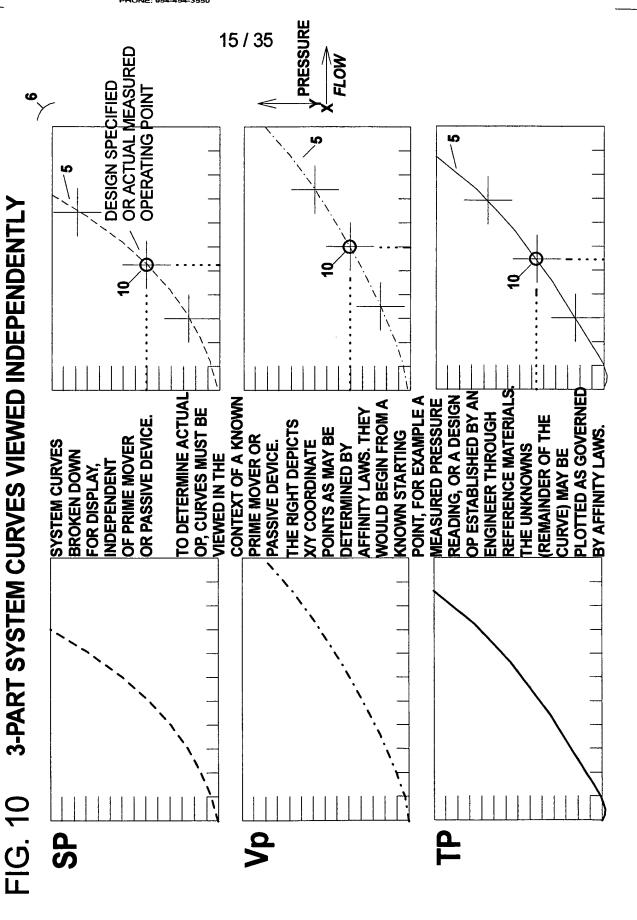


*TOTAL STATIC PRESSURE AS WITH TRADITIONAL PERFORMANCE CURVES, WHERE TP=SP **OP - OPERATING POINT (CENTER)**



*TOTAL STATIC PRESSURE AS WITH TRADITIONAL PERFORMANCE CURVES, WHERE TP=SP **OP - OPERATING POINT (CENTER)**

THE PARTY OF A



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CURVE RIDING AND OP DEVIATION

FIG. 12A

FIG. 12

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SYSTEM CHANGES TP SP Vp

PRIME MOVER CHANGES

ROTATIONAL SPEED

SECONDARY MOVER

SERIES OR PARALLEL OPERATION

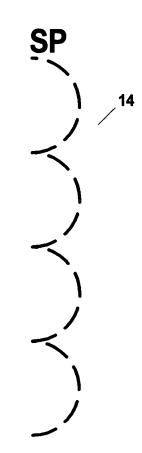
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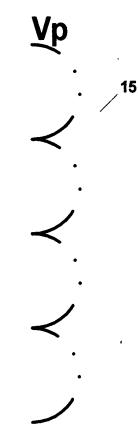
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FIG. 13

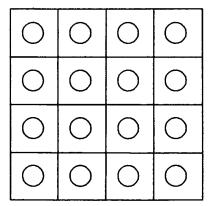
SENSOR LOGIC

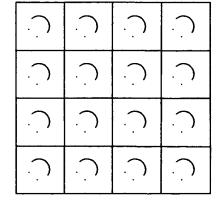






DUCT CROSS-SECTIONAL EQUAL AREA TRAVERSE





TOTAL IMPACT SENSORS

STATIC ONLY SENSORS

VELOCITY ONLY SENSORS
TP-SP, AS WITH PITOT TUBE

13

14

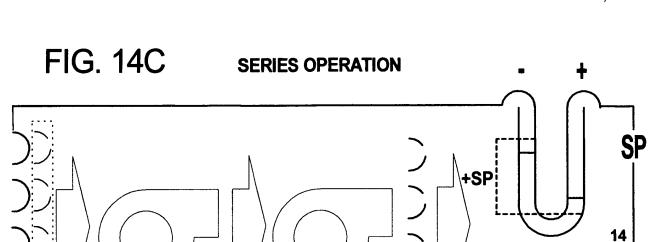
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LE: FULLY ARTICULATED AND COMPREHENSIVE AIR AND FLUID DISTRIBUTION, ING, AND CONTROL METHOD AND APPARATUS FOR PRIMARY MOVERS, HEAT NGERS, AND TERMINAL FLOW DEVICES.

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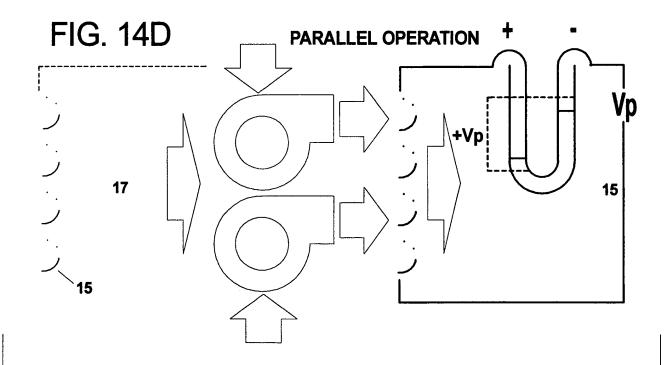
20 / 35 MOVER SENSOR LOGIC IN SERIES OR PARALLEL OPERATION

1

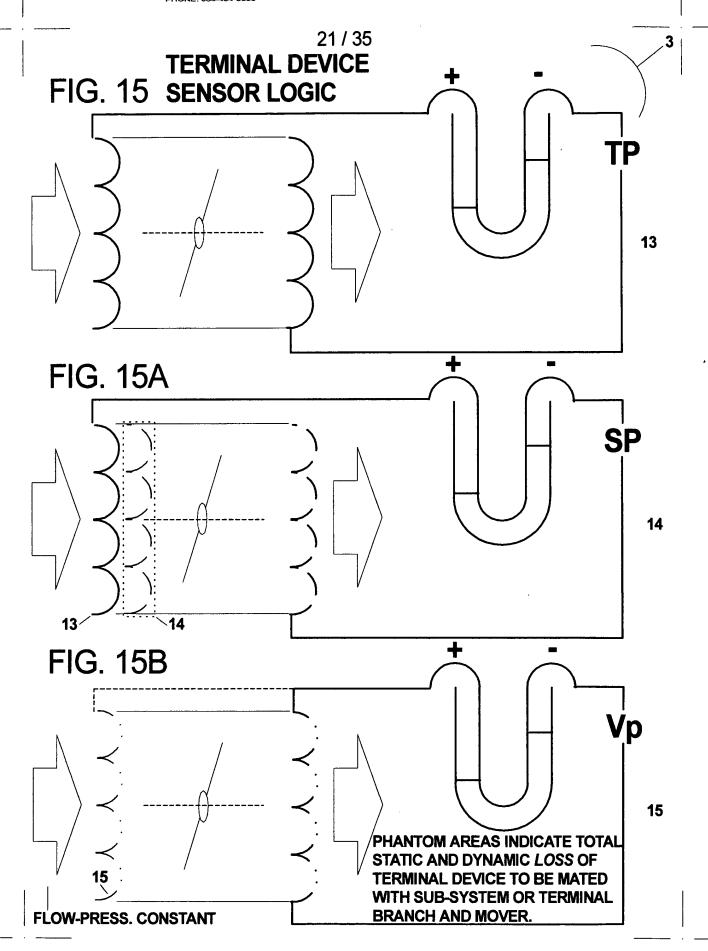


ONE OR MORE PRIMARY MOVERS IN SERIES OR PARALLEL AUGMENT EITHER SP OR Vp, RESPECTIVELY, AS SHOWN.

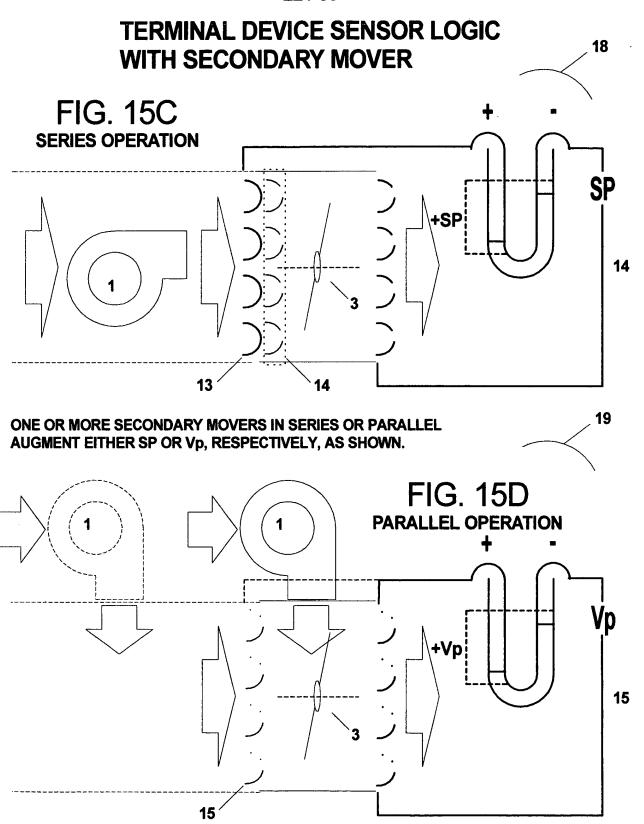
16

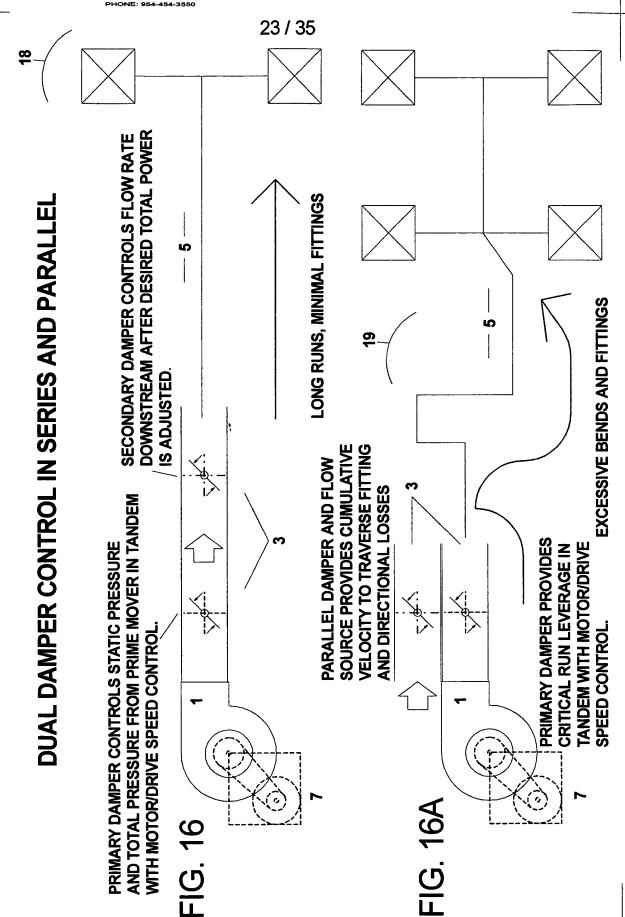


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SPD. CTRL.

LEAKAGE AMOUNT PER SURFACE

Vp CURVE LEVEL OFF INDICATES

LEAKAGE TESTER

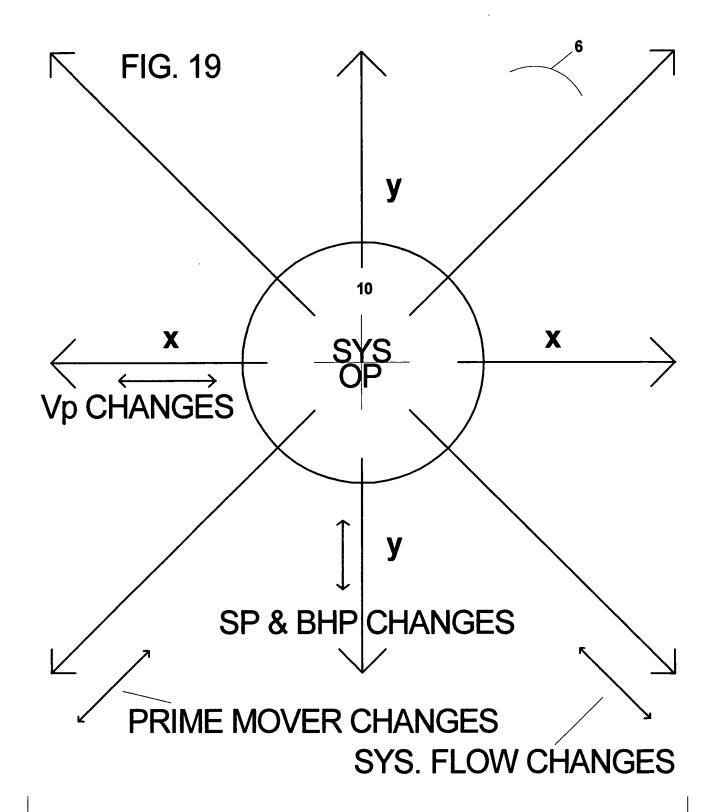
<u>Տ</u>

SP

SP LEVEL ADJUSTED TO **DUCTWORK RATING TO** **VOLUME OF A GIVEN VESSEL OR ENCLOSURE**

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26 / 35 VECTORIAL DISPLAY



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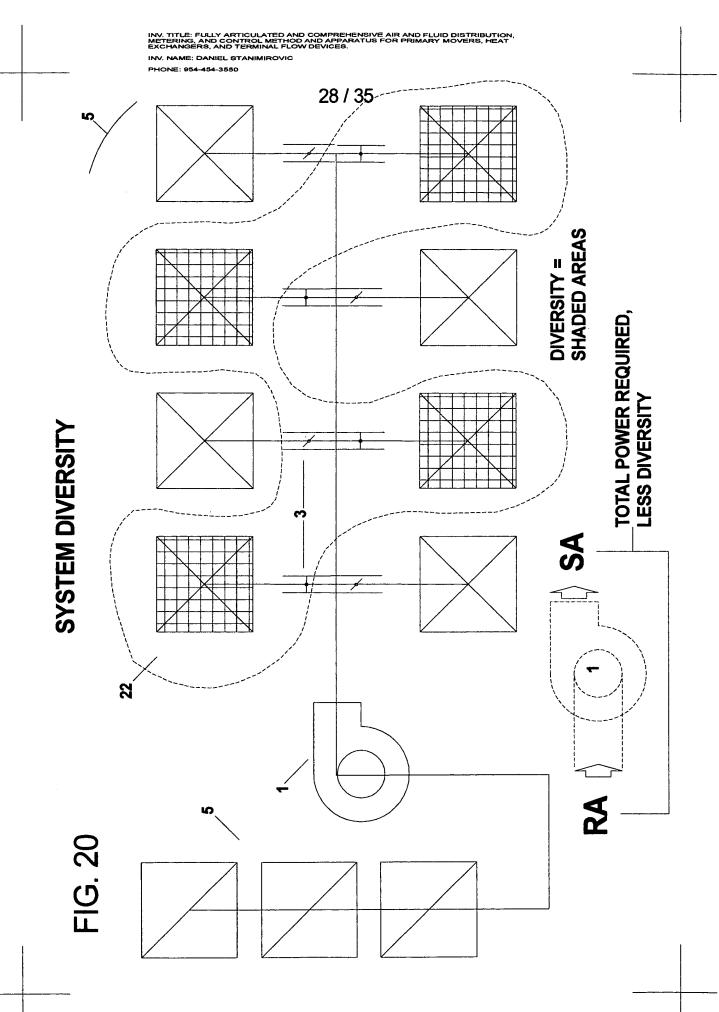
VECTORIAL ANALYSIS - TOTAL SYSTEM TO SUB-SYSTEM

TERMINAL BRANCH OP FIG. 19A **TOTAL SYSTEM OP**

SHOWN HERE, A CORRELATIVE EFFECT BETWEEN A TOTAL SYSTEM AND ITS SUBBRANCH AS THE CHANGE IN ONE AFFECTS THE OTHER, EITHER ADVERSELY OR BENEFICIALLY. THE VECTORIAL ANALYSIS PROVIDES A "BARE BONES" DEPICTION OF EACH SPECIFIC CHANGE EFFECTED IN ONE OR THE OTHER SYSTEM. FOR EXAMPLE, THERE WAS AN X INCREASE IN BHP WHEN A DAMPER WAS CLOSED IN THE SUB-BRANCH.



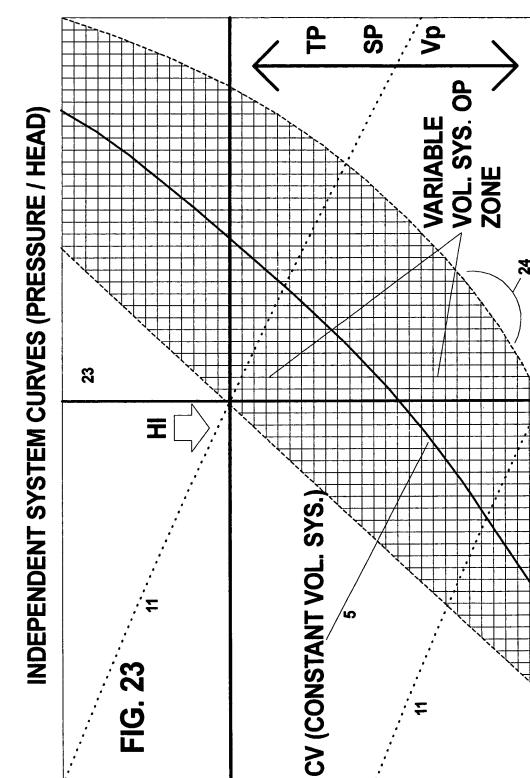
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PRESSURE / HEAD CONSTANT

2

FLOW